

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	409	du-h\$.in.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/20 01:35
L2	1	1 and lipase	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/20 01:36
L3	4823	anderson-r\$.in.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/20 01:34
L4	2	3 and lipase	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/20 01:34
L5	9	ameis-d\$.in.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/20 01:36
L6	0	5 and lipase	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/20 01:36
S2	0	TANGO294	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/20 01:26
S10	0	TANGO294	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/18 19:56
S11	825	TANGO	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/18 20:04
S12	1900	(fraser-c\$ barnes-t\$ sharp-j\$ kirs-s\$ myers-p\$ leiby-k\$ holtzman-d\$ mccarthy-s\$ wrighton-n\$ mackay-c\$ goodearl-a\$).in.	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/18 20:01
S13	61	S11 and S12	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/18 20:02
S14	764	S11 not S12	USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/18 20:01
S15	2	("6764677").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/18 20:03
S16	2	("7033780").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/01/18 20:03

## EAST Search History

S17	7	TANGO and lipase	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 20:05
S18	2	S17 not S12	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 20:06
S19	3	TANGO with lipase	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 20:06
S20	0	S19 not S12	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/18 20:06

Db . 301 KFQKFQAFDWGSSAKNYFHYNQSYPPTYNVKDMLVPTAVWSGGHDWLADVYDVNILLTQI 360  
 Qy 373 TNLYHKNIPEWAHVDIFIWGLDAPHRMYNEIIHLMQQ 409 B  
 ||::|:|::|:||| :|||||:|:|:||:|:  
 Db 361 TNLVFHESIPEWEHLDIFIWGLDAPWRLYNKIIINLMRK 397

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RESULT 2  
S41408

lysosomal acid lipase (EC 3.1.1.-) / sterol esterase (EC 3.1.1.13) precursor - human  
C;Species: Homo sapiens (man)  
C;Date: 13-Jan-1995 #sequence\_revision 13-Jan-1995 #text\_change 09-Jul-2004  
C;Accession: S41408; A39315; S47187  
R;Ameis, D.; Merkel, M.; Eckerskorn, C.; Greten, H.  
Eur. J. Biochem. 219, 905-914, 1994  
A;Title: Purification, characterization and molecular cloning of human hepatic lysosomal acid lipase.  
A;Reference number: S41408; MUID:94155897; PMID:8112342  
A;Accession: S41408  
A;Status: preliminary  
A;Molecule type: mRNA  
A;Residues: 1-399 <AME>  
A;Cross-references: UNIPROT:P38571; UNIPARC:UPI000013C851; EMBL:X76488; NID:g434305; PIDN:CAA54026.1; PID:g  
R;Anderson, R.A.; Sando, G.N.  
J. Biol. Chem. 266, 22479-22484, 1991  
A;Title: Cloning and expression of cDNA encoding human lysosomal acid lipase/cholesteryl ester hydrolase. S  
A;Reference number: A39315; MUID:92042192; PMID:1718995  
A;Accession: A39315  
A;Status: preliminary  
A;Molecule type: mRNA  
A;Residues: 1-15,'P',17-399 <AND>  
A;Cross-references: UNIPARC:UPI000004EF88; GB:M74775; NID:g187151; PIDN:AAA59519.1; PID:g187152  
R;Du, H.; Gregory, G.A.  
submitted to the EMBL Data Library, April 1994  
A;Description: Structural conservation of putative functional motifs between mouse and human lysosomal acid  
A;Reference number: S47187  
A;Accession: S47187  
A;Status: preliminary  
A;Molecule type: mRNA  
A;Residues: 1-22,'R',24-399 <DUH>  
A;Cross-references: UNIPARC:UPI000016A09B; EMBL:Z31690; NID:g506430; PIDN:CAA83495.1; PID:g506431  
C;Genetics:  
A;Gene: GDB:LIPA  
A;Cross-references: GDB:120153; OMIM:278000  
A;Map position: 10q24-10q25  
C;Superfamily: triacylglycerol lipase, lingual  
C;Keywords: carboxylic ester hydrolase; glycoprotein

Query Match 57.4%; Score 1290; DB 2; Length 399;  
Best Local Similarity 61.0%; Pred. No. 2.2e-106;  
Matches 242; Conservative 59; Mismatches 94; Indels 2; Gaps 1;

Qy 73 LSVNRPGLVQPKKTGSRPVLLQHGLVGGASNWISNLPPNSLGFILADAGFDVWMGNS 132

Qy 133 RGNAWSRKHKTLSIDQDEFWAFSYDEMARFDLPAVINFIQLKTGQEKKIYVGYSQGTTMG 192

Db 121 RGNTWSRKHKTLSVSQDEFWAFSYDEMAKYDLPASINFILNKTGQEQQVYVGHSSQGTTIG 180  
Qv 193 FIAFSTMPLEAQKIKMYFALAPIATVKHAKSPGTKFLLLPDMMIKGFLFGKKEFLYOTRFL 252

Db 181 FIAFSQIPELAKRIMFFALGPVAVAFCTSPMAKLGRLPDHLIKDLFGDKEFLPQS AFL 240

Db 241 KWLGHVCTHVILKELCGNLCFLCFGFNERNLNMSRVDVYTHSPAGTSVQNLHWSQAV 300

Qy 373 TNLIYHKNIPEWAHVDFIWLDAHRMYNEIIHLMQQ 409

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Db 361 TNLFHESIPEWEHLDIWLGLDAPWRLYNKKIINLMRK 397

## RESULT 3

LIRTT

triacylglycerol lipase (EC 3.1.1.3) precursor, lingual - rat

C;Species: Rattus norvegicus (Norway rat)

C;Date: 30-Sep-1987 #sequence\_revision 30-Sep-1987 #text\_change 09-Jul-2004

C;Accession: A23045

R;Docherty, A.J.P.; Bodmer, M.W.; Angal, S.; Verger, R.; Riviere, C.; Lowe, P.A.; Lyons, A.; Emtege, J.S.; Nucleic Acids Res. 13, 1891-1903, 1985

A;Title: Molecular cloning and nucleotide sequence of rat lingual lipase cDNA.

A;Reference number: A23045; MUID:85215587; PMID:3839077

A;Accession: A23045

A;Molecule type: mRNA

A;Residues: 1-395 &lt;DOC&gt;

A;Cross-references: UNIPROT:P04634; UNIPARC:UPI000004D06D; GB:X02309; NID:g56595; PIDN:CAA26179.1; PID:g565

A;Experimental source: strain Sprague-Dawley

A;Note: the partial sequence of the mature protein from a different, unspecified strain differed from that

C;Comment: This acid-stable lipase is secreted by the serous (von Ebner's) glands at the back of the tongue

C;Superfamily: triacylglycerol lipase, lingual

C;Keywords: carboxylic ester hydrolase; glycoprotein; lipid digestion; saliva; serous glands; von Ebner's

F;1-18/Domain: signal sequence #status predicted &lt;SIG&gt;

F;19-395/Product: triacylglycerol lipase, lingual #status predicted &lt;MPT&gt;

F;33,68,98,184,270/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 51.8%; Score 1164.5; DB 1; Length 395;

Best Local Similarity 54.9%; Pred. No. 2.9e-95;

Matches 217; Conservative 69; Mismatches 108; Indels 1; Gaps 1;

Qy 17 MWLLILVAYMFQ-RNVNSVHMPTKAVDPEAFMNISEIIQHQGYCEEYEVATEDGYILSV 75  
Db 1 MWLLLITSVISTFGGAHGLFGKLGPNGPEANMNISQMITYWGYPCEYEVVTEDGYILGV 60Qy 76 NRIPRGLVQPKKTGSRPVVLLQHGLVGGASNWISNLPPNSLGFILADAGFDVWMGNSRGN 135  
Db 61 YRIPHGNSENIGKRPVVYLQHGLIASATNWIANLPNNSLAFMLADAGYDVWLGNNSRGN 120Qy 136 AWSRKHKTLSIDQDEFWFASYDEMARFDLPAVINFIQLKTGQEKIYVGYSQGTTMGFIA 195  
Db 121 TWSRKNVYYSPDSVEFWAFSFDEMAKYDLPATINFIVQKTGQEKIYVGHSQTTIGFIA 180Qy 196 FSTMPPELAQKIKMYFALAPIATVKHAKSPGTKFLLPDMMIKGFLGKKEFLYQTRFLRQL 255  
Db 181 FSTNPNTLAKKIKTFYALAPVATVKYTQSPPLKKISFIPPTFLFKLMFGKKMFLPHTYFDDFL 240Qy 256 VIYLCGQVILDQICSNIMLLGGFTNTNNMMSRASVYAAHTLAGTSVQNILHWSQAVNSG 315  
Db 241 GTEVCSREVLDLLCSNTLFICGFDKKNLNVSFRDVYLGHNPGTSVQDFLHWQLVRSG 300Qy 316 ELRAFDWGSETKNLEKCNQPTPVRYRVRDMTVPTAMWTGGQDWLSNPEDVKMLLSEVTNL 375  
Db 301 KFQAFNWGSPSQNMLHYNQKTPPEYDVSAMTVPVAVWNGNDILADPQDVAMLLPKLSNL 360Qy 376 IYHKNIPEWAHVDFIWLGLDAPHMYNEIIHLMQQE 410  
Db 361 LFHKEILAYNHLDIWIAMDAPQEYVYNEMISMMAED 395

## RESULT 4

JC4017

triacylglycerol lipase (EC 3.1.1.3) PGE precursor - bovine

N;Alternate names: pregastric esterase

C;Species: Bos primigenius taurus (cattle)

C;Date: 10-Sep-1999 #sequence\_revision 10-Sep-1999 #text\_change 09-Jul-2004

C;Accession: JC4017; S64678

R;Timmermans, M.Y.J.; Teuchy, H.; Kupers, L.P.M.

Gene 147, 259-262, 1994

A;Title: The cDNA sequence encoding bovine pregastric esterase.

A;Reference number: JC4017; MUID:95011625; PMID:7926811

A;Accession: JC4017

A;Molecule type: mRNA

A;Residues: 1-397 &lt;TIM&gt;

A;Cross-references: UNIPROT:Q29458; UNIPARC:UPI000012E708; GB:L26319; NID:g600756; PIDN:AAA57037.1; PID:g6c

A;Experimental source: tongue